



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/905,379	07/13/2001	Peter Galicki	TI-29497	6112

23494 7590 03/29/2005

TEXAS INSTRUMENTS INCORPORATED
P O BOX 655474, M/S 3999
DALLAS, TX 75265

EXAMINER

NGUYEN, TANH Q

ART UNIT PAPER NUMBER

2182

DATE MAILED: 03/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/905,379

Applicant(s)

GALICKI ET AL.

Examiner

Tanh Q. Nguyen

Art Unit

2182

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 07/253 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 July 2001.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 and 2 is/are rejected.
- 7) ☒ Claim(s) 3-5 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 July 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 07/25/02.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____.

DETAILED ACTION

Claim Objections

1. Claims 1-5 are objected to because of the following informalities:

"said data receiver circuit" in line 11 and lines 12-13 of claim 1 should be replaced with "said data receiver" to provide proper antecedent basis with "a data receiver" in line 2.

"said at least one data output lines" in line 12 of claim 1 should be replaced with "said at least one **set of** data output lines" to provide proper antecedent basis with "at least one set of data output lines" in line 7.

"a predetermined receiver event in said data packet" in lines 17-18 should be replaced with "a predetermined receiver event" - as an event is not an entity that can be contained in a data packet.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation

Art Unit: 2182

under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Scott et al. (USP 5,796,738)** in view of **Keshav (USP 5,793,768)**.

Scott teaches a data routing unit [FIG. 1] comprising:

a data receiver [42, 18, FIG. 1];

a data transmitter [46, 22, FIG. 1];

a bridge circuit [52, 44, 48, FIG. 3] connected to supply data said data receiver [via 26, FIG. 1] and to receive data from said data transmitter [via 54, FIG. 3], said bridge circuit connected to at least one set of data input lines [via 48, FIG. 3; col. 6, lines 44-47] and at least one set of data output lines [via 48, FIG. 3; col. 6, lines 44-47], said bridge circuit responsive to a header of a data packet received from said data transmitter or received from said at least one set of input lines to selectively route said received data packet to (1) said data receiver, (2) a selected set said at least one set of data output lines, or (3) both said data receiver and a selected set of said least one set data output lines dependent upon said header [col. 9, lines 28-35; col. 10, lines 10-21].

Scott does not specifically teach the data receiver generating an interrupt to the data transmitter to transmit predetermined response data upon detection of a

Art Unit: 2182

predetermined receiver event (i.e. the data receiver generating an interrupt to transmit predetermined response data to the data transmitter).

Keshav teaches a data receiver [RH, FIG. 1] transmitting a predetermined response data [ACK between RH and RP, FIG. 1] to a bridge circuit [RP, FIG. 1], and the bridge circuit transmitting the predetermined response data to the source of a data packet [ACK between RP and SOURCE, FIG. 1], upon detection of a predetermined receiver event [receipt of data packet at the data receiver, col. 1, lines 27-29], hence teaches the data receiver generating an interrupt to transmit predetermined response data upon detection of a predetermined receiver event - to the bridge circuit and to the source.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to transmit predetermined response data to the bridge circuit and the data transmitter (the source of the data packet), as is taught by **Keshav**, in order to provide reception status of the data packet to the data transmitter.

5. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Scott et al.** in view of **Keshav**, and further in view of **Ohsawa (USP 5,519,699)**.

The combination of **Scott** with **Keshav** does not specifically teach the data transmitter transmitting a transmitter receipt signal back to a source of the data packet upon detection of the predetermined receiver event.

Ohsawa teaches a data receiver [TERMINAL 2, fig. 1] transmitting a receipt signal [ACK, FIG. 1] back to the source [TERMINAL 1, FIG. 2] of the data packet

Art Unit: 2182

through a bridge circuit [ROUTER 4, FIG. 1] and a data transmitter [ROUTER 3, FIG. 1], upon detection of the predetermined receiver event, hence the data transmitter transmitting a transmitter receipt signal (a receipt signal from the transmitter) back to a source of the data packet upon detection of the predetermined receiver event.

It would have been obvious to one of ordinary skill in the art at the time the invention was made that when there are two intermediate nodes between the source and the data receiver, as is taught by Ohsawa, for the intermediate node closest to the source (the data transmitter) to transmit a receipt signal back to the source in order provide reception status of the data packet to the source of the data packet.

Allowable Subject Matter

6. Claims 3-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Quang Nguyen whose telephone number is (571) 272-4154 and whose e-mail address is tanh.nguyen36@uspto.gov. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Gaffin, can be reached on (571) 272-2100. The fax phone number

Art Unit: 2182

for the organization where this application or proceeding is assigned is 703-872-9306 for After Final, Official, and Customer Services, or (571) 273-4154 for Draft to the Examiner (please label "PROPOSED" or "DRAFT").

Effective May 1, 2003 are new mailing address is:

Mail Stop ____

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Effective December 1, 2003, hand-carried patent application related incoming correspondences will be to a centralized location.

U.S. Patent and Trademark Office

2011 South Clark Place

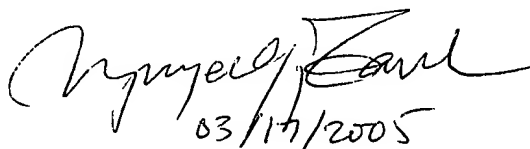
Customer Window

Crystal Plaza Two, Lobby, Room 1B03

Arlington, VA 22202

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197.

TQN
March 17, 2005



03/17/2005